### **PRODUCT INFORMATION PACKET**

Model No: SCA0754A4133GAA001 Catalog No: SCA0754A4133GAA001 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 315M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E





marathon®

Product Information Packet: Model No: SCA0754A4133GAA001, Catalog No:SCA0754A4133GAA001 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380/660 V, 750 RPM, 315M Frame, TEFC

## marathon®

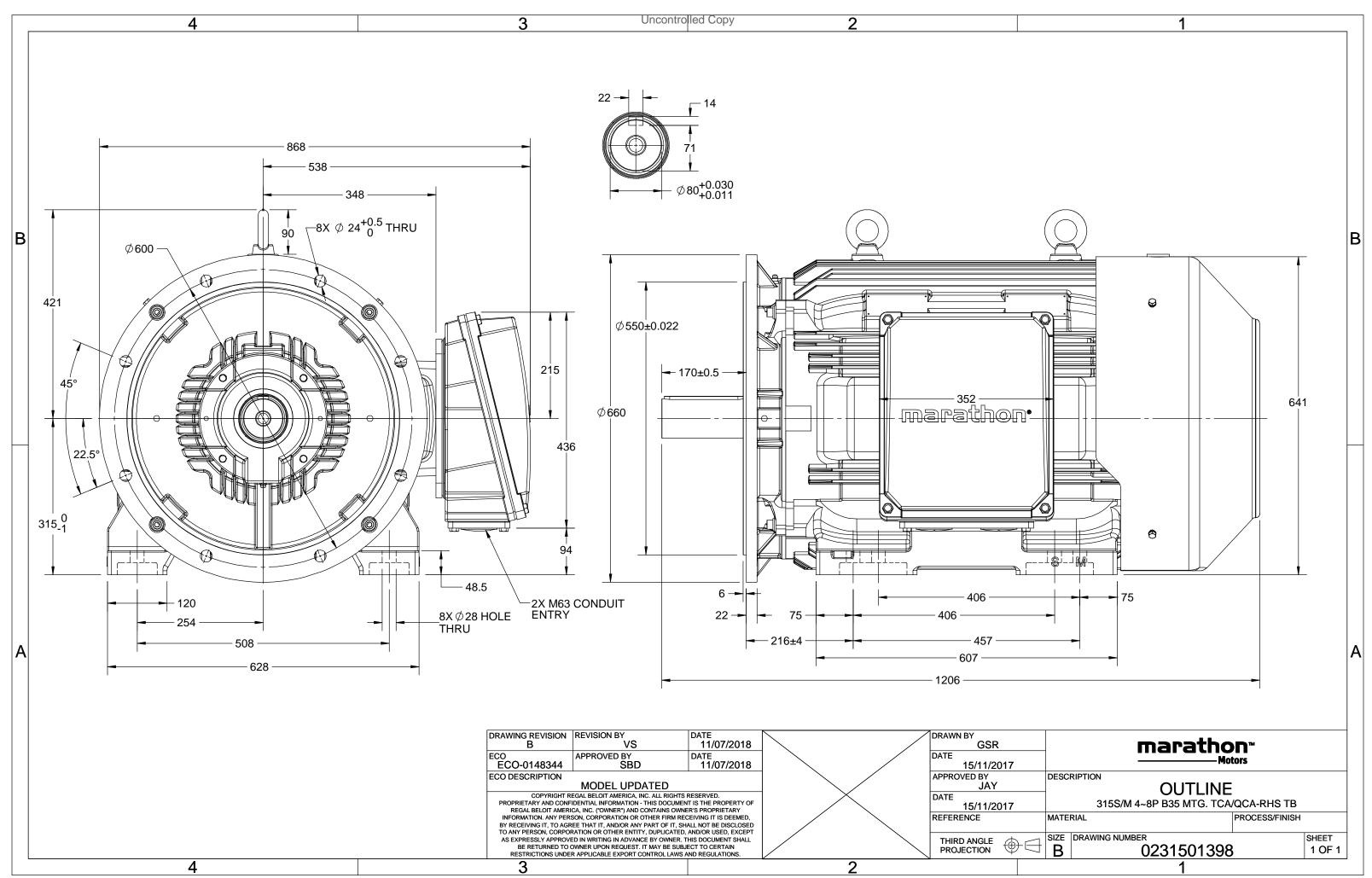
#### Nameplate Specifications

Output HP	100 Нр	Output KW	75.0 kW	
Frequency	50 Hz	Voltage	380/660 V	
Current	170.4 A	Speed	743 rpm	
Service Factor	1	Phase	3	
Efficiency	91.6 %	Power Factor	0.73	
Duty	S1	Insulation Class	F	
Frame	315M	Enclosure	Totally Enclosed Fan Cooled	
Frame Thermal Protection	315M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Thermal Protection Drive End Bearing Size	No Protection 6319	Ambient Temperature Opp Drive End Bearing Size	40 °C 6319	

#### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0231501398

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/01/2022



3 of 5





# **TerraMAX**<sup>®</sup>

Model No. SCA0754A4133GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	6 EFF at	tload	l	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	75	100	170.4	743	959.7	IE2	-	91.6	91.6	92.1	0.73	0.67	0.55	4.8	1.9	2.0

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315M		Motor weight - approx.	982	kg
Duty	S1		Gross weight - approx.	1027	kg
Voltage variation *	± 10%		Motor inertia	4.8296	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level ( 1meter distance from mot	or) 64	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance	e) 80 [ Class B ]	К	LR withstand time (hot/cold)	30/15	S
Altitude above sea level	1000	meter	Direction of rotation	<b>Bi-directional</b>	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6319 C3/ 6319 C3		Terminal box position	RHS	
Lubrication method	Re-grease-able		Maximum cable size/conduit size 1	R x 3C x 240mm²/2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\rm A}/I_{\rm N}$  - Locked Rotor Current / Rated Current  $T_{\rm A}/T_{\rm N}$  - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

\* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

